

**AMENDMENTS TO THE SPECIFICATION:**

Please replace paragraph [0002] with the following amended paragraph:

**[0002]** At least some aspects of this invention were made with Government support under contract nos. ~~N00014-98-1-05907~~ N00014-98-1-0597 and NAG-1-01061. The Government may have certain rights in this invention.

Please replace paragraph [0006] with the following amended paragraph:

**[0006]** U.S. Patent No. 6,630,772 \_\_\_\_\_ (~~Serial No. 09/296,572~~ entitled "Device Comprising Carbon Nanotube Field Emitter Structure and Process for Forming Device",~~[[ ]]~~) the disclosure of which is incorporated herein by reference, in its entirety, discloses a carbon nanotube-based electron emitter structure.

Please replace paragraph [0007] with the following amended paragraph

**[0007]** U.S. Patent Application No. \_\_\_\_\_ (~~Serial No. 09/351,537~~ entitled "Device Comprising Thin Film Carbon Nanotube Electron Field Emitter Structure ",~~[[ ]]~~) the disclosure of which is incorporated herein by reference, in its entirety, discloses a carbon-nanotube field emitter structure having a high emitted current density.

Please replace paragraph [0010] with the following amended paragraph:

**[0010]** U.S. Patent No. 6,553,096 \_\_\_\_\_ (~~Serial No. 09/679,303~~ entitled "X-Ray Generating Mechanism Using Electron Field Emission Cathode"~~[[ ]]~~), the disclosure of which is incorporated herein by reference, in its entirety, discloses an X-ray generating device incorporating a nanostructure-containing material.

Please replace paragraph [0012]-[0015] with the following amended paragraph:

**[0012]** U.S. Patent No. 6,787,122 \_\_\_\_\_ (~~Serial No. 09/881,684~~ entitled "Method of Making Nanotube-Based Material With Enhanced Field Emission"~~[[ ]]~~), the

disclosure of which is incorporated herein by reference, in its entirety, discloses a technique for introducing a foreign species into the nanotube-based material in order to improve the properties thereof.

**[0013]** U.S. Patent No. 6,876,724 \_\_\_\_\_ (~~Serial No. 10/051,183~~ entitled "Large-Area Individually Addressable Multi-Beam X-Ray System and Method of Forming Same"[[ ]]), the disclosure of which is incorporated herein by reference, in its entirety, discloses a structure to generate x-rays having a plurality of stationary and individually electrically addressable field emissive electron sources, such as carbon nanotubes.

**[0014]** U.S. Patent Application Publication No. 2003/0180472 No. \_\_\_\_\_ (~~Serial No. 10/103,803~~ entitled "Method for Assembling Nanoobjects"[[ ]]), the disclosure of which is incorporated herein by reference, in its entirety, discloses a technique for the self assembly of a macroscopic structure with preformed nanoobjects, which may be processed to render a desired aspect ratio and chemical functionality.

**[0015]** U.S. Patent Application Publication No. 2004/0173378 \_\_\_\_\_ (~~attorney docket no. 032566-043~~) (entitled "Methods for Assembly of Nanostructure-Containing Materials and Related Articles"[[ ]]), the disclosure of which is incorporated herein by reference, in its entirety, describes various electrophoretic-type methods for assembling and attaching nanostructure-containing materials to various objects.

Please replace paragraph [0038] with the following amended paragraph:

**[0038]** The raw nanostructure-containing material can be subjected to purification after formation. There are a number of techniques for purifying the raw materials. According to one preferred embodiment, the raw material can be purified using a reflux reaction in a suitable solvent, such as a combination of peroxide ( $H_2O_2$ ) and water. The  $H_2O_2$  concentration can be 1-40% by volume, preferably about 20% by volume  $H_2O_2$ , with subsequent rinsing in  $CS_2$ , then methanol, followed by filtration. According to an exemplary technique, approximately 10-100 ml of  $H_2O_2$  is introduced into the medium for every 1-10 mg of nanotubes in the medium, and the reflux reaction is carried out at a temperature of 20°C - 100°C (see, for example, U.S. Patent No. 6,553,096 \_\_\_\_\_ (~~Serial No. 09/679,303~~)).